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George Lackman,
Commissioner of Agriculture,
State of Montana,
Helena, Montana 59601

B.E. Ginther,
Chemist,
Agricultural Experiment Station,
Bozeman, Montana 59715

COMMERCIAL FERTILIZER REPORT

Issued by
The Department of Agriculture, State of Montana, Helena, Montana
and
The Agricultural Experiment Station, Montana State University, Bozeman, Montana

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
AMERICAN POTASH & CHEMICAL CORPORATION, A Subsidiary of Kerr-McGee Corporation, P.O. Box 25861 Oklahoma City, Oklahoma 73125								
Trona 0-0-60	Kalispell	1411					60.0	61.2
C & F INDUSTRIES 17331 S.E. Stark Portland, Oregon 97233								
34-0-0	Great Fls.*	1639	34.0	34.0				
CENTRAL FARMERS FERTILIZER CO. 100 S. Wacker Drive, Chicago, Illinois 60604								
Central Farmers 0-45-0	Dutton	1509			45.0	45.1		
0-45-0	Denton	1480			45.0	45.6		
0-0-60	Denton	1482					60.0	60.0
0-0-60	Conrad	1402					60.0	60.0
0-0-60	Power	1407					60.0	60.5
11-48-0	Dutton	1510	11.0	11.1	48.0	48.7		
11-48-0	Kalispell	1416	11.0	11.1	48.0	48.7		
11-48-0	Conrad	1503	11.0	11.1	48.0	49.1		
11-48-0	Cut Bank	1446	11.0	11.2	48.0	48.8		
11-48-0	Chinook	1431	11.0	11.2	48.0	48.8		
16-20-0	Stevens-ville	1518	16.0	16.3	20.0	21.2		
16-20-0	Chinook	1433	16.0	16.3	20.0	21.8		

(continued)

Deficient Beyond Tolerance - Underscored
Not Registered - *

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
Central Farmers Fertilizer Co. (Continued)								
16-20-0	Kalispell	1414	16.0	16.4	20.0	21.3		
18-46-0	Kalispell	1415	18.0	18.2	46.0	45.9		
18-46-0	Stevensville	1517	18.0	18.2	46.0	46.3		
18-46-0	Valier	1506	18.0	18.2	46.0	46.3		
18-46-0	Stanford	1499	18.0	18.4	46.0	46.3		
18.46-0	Denton	1481	18.0	18.4	46.0	46.7		
18-46-0	Chinook	1432	18.0	18.2	46.0	47.8		
18-46-0	Lewistown	1492	18.0	18.5	46.0	46.6		
18-46-0	Dutton	1511	18.0	18.5	46.0	46.8		
18-46-0	Conrad	1504	18.0	18.5	46.0	46.9		
18-46-0	Lewistown	1491	18.0	18.4	46.0	46.9		
21-0-0	Stevensville	1516	21.0	20.8				
23-23-0	Lewistown	1493	23.0	21.4	23.0	26.6		
24-24-0	Stanford	*1498	24.0	24.4	24.0	24.7		
27-14-0	Lewistown	1494	27.0	27.4	14.0	13.43		
33.5-0-0	Chester	1442	33.5	33.9				
34-0-0	Kalispell	1413	34.0	34.1				
34-0-0	Ronan	1422	34.0	34.2				
CHEVRON CHEMICAL CO. Ortho Division, 940 Hensley, Richmond, California 94804								
Ortho								
16-20-0	Stevensville	1515	16.0	15.9	20.0	20.2		
16-20-0	Hysham	452	16.0	16.3	20.0	21.5		
18-46-0	Stevensville	1513	18.0	18.0	46.0	46.9		
18-46-0	Hysham	450	18.0	18.2	46.0	46.0		
34-0-0	Hysham	451	34.0	34.1				
Ortho Unipel								
22-22-0	Dillon	1590	22.0	21.2	22.0	22.3		
22-22-0	Stevensville	1512	22.0	21.5	22.0	22.8		
22-22-0	Hysham	453	22.0	21.8	22.0	22.3		

(continued)

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Chevron Chemical Co. (continued)								
27-12-0	Stevens-ville	1514	27.0	26.6	12.0	12.1		
27-12-0	Dillon	1451	27.0	26.6	12.0	12.1		
27-12-0	Dillon	1591	27.0	26.8	12.0	12.1		
COLLIER CARBON & CHEMICAL CORPORATION 461 South Boylston Street, Los Angeles, California 90017								
Brea								
11-48-0	Merri-weather	1447	11.0	11.4	48.0	48.6		
COMINCO AMERICAN INCORPORATED, West 818 Riverside Avenue, Spokane, Washington 99201								
Elephant								
0-0-60	Miles City	420					60.0	60.7
8-24-0	Shelby	1457	8.0	8.5	24.0	24.8		
10-34-0	Shelby	1458	10.0	10.4	34.0	35.0		
11-48-0	Brady	1508	11.0	11.4	48.0	48.2		
11-48-0	Kalispell	1417	11.0	11.4	48.0	49.3		
11-55-0	Stanford	1635	11.0	11.1	55.0	55.8		
11-55-0	Lewistown	1391	11.0	11.4	55.0	54.5		
11-55-0	Denton	1486	11.0	11.5	55.0	55.3		
16-20-0	Hamilton	1409	16.0	15.9	20.0	20.1		
16-20-0	Ronan	1424	16.0	16.1	20.0	20.0		
16-20-0	Kalispell	1419	16.0	16.8	20.0	18.6		
18-46-0	Hamilton	1410	18.0	18.0	46.0	46.8		
18-46-0	Kalispell	1418	18.0	18.1	46.0	46.8		
18-46-0	Fort Benton	1429	18.0	18.2	46.0	46.0		
18-46-0	Denton	1485	18.0	18.2	46.0	46.8		
18-46-0	Stanford	1637	18.0	18.2	46.0	47.1		
18-46-0	Brady	1507	18.0	18.3	46.0	46.3		
18-46-0	Stanford	1393	18.0	18.3	46.0	46.3		
18-46-0	Fairfield	1397	18.0	18.4	46.0	46.0		
18-46-0	Lewistown	1392	18.0	18.4	46.0	46.5		
21-0-0	Fairfield	1398	21.0	21.0				
21-0-0	Denton	1483	21.0	20.9				
21-0-0	Kalispell	1420	21.0	20.9				

(continued)

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Not Registered - *

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
COMINCO AMERICAN INCORPORATED, (continued) West 818 Riverside Avenue Spokane, Washington 99201								
34-0-0	Richey	478	34.0	33.8				
34-0-0	Stanford	1636	34.0	33.9				
ENJAY CHEMICAL COMPANY 60 West 49th Street New York, New York 10020								
Engro 11-48-0	Joplin	1440	11.0	11.0	48.0	48.2		
11-48-0	Shelby	1449	11.0	11.1	48.0	48.7		
11-48-0	Joplin	1439	11.0	11.1	48.0	49.0		
11-48-0	Chester	1441	11.0	11.2	48.0	49.2		
11-48-0	Fort Benton	1427	11.0	11.2	48.0	49.4		
11-48-0	Conrad	1401	11.0	11.2	48.0	50.0		
11-55-0	Havre	1438	11.0	11.3	48.0	48.8		
11-55-0	Belgrade	1462	11.0	11.2	55.0	53.5		
16-20-0	Lewistown	1489	11.0	11.4	55.0	54.2		
16-20-0	Lewsitown	1495	16.0	16.1	20.0	22.5		
18-46-0	Conrad	1404	16.0	16.3	20.0	22.6		
18-46-0	Chester	1444	18.0	18.3	46.0	45.5		
18-46-0	Winifred	1487	18.0	18.1	46.0	46.4		
18-46-0	Great Falls	1405	18.0	18.2	46.0	46.2		
18-46-0	Miles City	408	18.0	18.3	46.0	46.0		
18-46-0	Denton	1478	18.0	18.3	46.0	47.1		
18-46-0	Conrad	1403	18.0	18.4	46.0	46.0		
18-46-0	Bozeman	1469	18.0	18.4	46.0	46.1		
18-46-0	Belgrade	1463	18.0	18.4	46.0	46.5		
18-46-0	Kalispell	1412	18.0	18.4	46.0	46.8		
18-46-0	Havre	1437	18.0	18.4	46.0	46.8		
18-46-0	Geraldine	1476	18.0	18.5	46.0	46.5		
27-14-0	Shelby	1450	18.0	18.6	46.0	46.4		
27-14-0	Bozeman	1467	27.0	27.5	14.0	13.9		
34-0-0	Miles City	405	27.0	27.7	14.0	14.0		
34-0-0	Bozeman	1468	34.0	34.1				

(continued)

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ENJAY CHEMICAL COMPANY (continued)								
Terico								
27-14-0	Miles City	406	27.0	27.6	14.0	13.9		
Esso								
18-46-0	Great Fls	1638	18.0	18.3	46.0	46.6		
FARMERS UNION CENTRAL EXCHANGE 1185 North Concord Street So. St. Paul, Minnesota 55075								
Farmers Union								
0-45-0	Broadview	424			45.0	45.3		
0-45-0	Hysham	456			45.0	45.5		
0-45-0	Billings	427			45.0	45.8		
0-0-60	Hysham	457					60.0	62.2
0-0-60	Billings	429					60.0	62.8
11-55-0	Denton	1479	11.0	11.4	55.0	54.0		
11-55-0	Broadview	423	11.0	11.5	55.0	55.5		
11-55-0	Billings	425	11.0	11.6	55.0	53.7		
18-46-0	Hysham	455	18.0	18.3	46.0	46.9		
21-0-0	Billings	428	21.0	20.7				
33.5-0-0	Hyshem	454	33.5	34.0				
34-0-0	Broadview	422	34.0	34.0				
34-0-0	Billings	426	34.0	34.1				
34-0-0	Power	1408	34.0	34.3				
KALIUM CHEMICAL COMPANY Regina, Saskatchewan Canada								
Kalium								
0-0-60	Denton	*1484					60.0	61.0
NORTHWEST NITRO-CHEMICALS SALES LTD. P.O. Box 310 Medicine Hat, Alberta, Canada								
Northwest								
0-45-0	Manhattan	1454			45.0	45.8		
0-46-0	Miles City	407			46.0	46.0		

(continued)

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NORTHWEST NITRO-CHEMICALS SALES LTD. (continued)								
0-0-62	Shelby	1448					62.0	62.0
8-32-16	Geyser	1501	8.0	8.6	32.0	33.1	16.0	16.8
10-30-10	Geyser	1502	10.0	10.6	30.0	30.7	10.0	10.9
11-48-0	Bozeman	1464	11.0	11.0	48.0	47.5		
11-48-0	Manhattan	1456	11.0	11.2	48.0	48.8		
11-22-22	Geyser	1500	11.0	11.4	22.0	22.9	22.0	21.2
16-20-0	Bozeman	1465	16.0	15.9	20.0	20.9		
16-20-0	Townsend	1475	16.0	16.0	20.0	20.2		
16-20-0	Manhattan	1453	16.0	16.1	20.0	19.9		
18-46-0	Lewistown	1496	18.0	17.7	46.0	46.9		
18-46-0	Manhattan	1452	18.0	17.9	46.0	46.0		
29-14-0	Deer Lodge	1425	29.0	28.8	14.0	15.2		
29-14-0	Bozeman	1466	29.0	29.0	14.0	14.6		
34-0-0	Manhattan	1455	34.0	34.1				
34-0-0	Ronan	1423	34.0	34.1				
PHILLIPS PETROLEUM COMPANY 316 Adams Building Bartlesville, Oklahoma 74003								
Phillips								
32-0-0	Great Fls	2026	32.0	30.2				
SELSTAD SOIL SERVICE W. Vaughn Road Great Falls, Montana 59401								
SSS								
10-33-0	Geraldine	2029	10.0	9.5	33.0	34.3		
10-33-0	Great Falls	2028	10.0	10.1	33.0	35.6		
SHERRITT FERTILIZERS, INC 103 Cascade Plaza 2828 S.W. Corbett Avenue Portland, Oregon 97201								
Sherritt								
11-48-0	Cut Bank	1445	11.0	11.3	48.0	48.0		
11-48-0	Valier	1505	11.0	11.5	48.0	48.2		
16-20-0	Winifred	1488	16.0	16.6	20.0	20.8		
16-20-0	Valier	1250	16.0	16.9	20.0	18.5		

(continued)

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SHERRITT FERTILIZERS, INC. (continued)								
16-20-0	Valier	1254	16.0	17.0	20.0	19.2		
16-20-0	Cut Bank	1247	16.0	17.2	20.0	18.9		
16-20-0	Bozeman	1470	16.0	17.9	20.0	18.1		
23-23-0	Bozeman	1471	23.0	21.8	23.0	26.1		
26-13-0	Bozeman	1472	26.0	27.1	13.0	11.1		
J.R. SIMPLOT COMPANY P.O. Box 912 Pocatello, Idaho 83201								
Simplot								
0-45-0	Billings	433			45.0	45.1		
0-45-0	Richey	474			45.0	45.5		
0-45-0	Geraldine	1477			45.0	45.6		
0-45-0	Fort Benton	1430			45.0	45.8		
0-45-0	Chester	1443			45.0	45.8		
0-45-0	Lewistown	1490			45.0	45.9		
0-45-0	Dillon	1593			45.0	45.9		
0-45-0	Chinook	1434			45.0	46.0		
0-45-0	Ronan	1421			45.0	46.1		
0-0-60	Billings	*432					60.0	62.2
11-48-0	Richey	473	11.0	10.9	48.0	48.8		
11-48-0	Billings	430	11.0	11.2	48.0	47.8		
11-48-0	Fort Benton	1428	11.0	11.2	48.0	48.1		
12-36-12	Moore	1497	12.0	12.9	36.0	37.1	12.0	11.55
16-20-0	Dillon	1595	16.0	15.8	20.0	19.95		
16-20-0	Conrad	1400	16.0	16.3	20.0	20.0		
16-20-0	Townsend	1473	16.0	16.3	20.0	20.1		
18-46-0	Choteau	1396	18.0	17.8	46.0	46.2		
18-46-0	Richey	475	18.0	18.0	46.0	46.5		
18-46-0	Manhattan	1384	18.0	18.1	46.0	45.9		
18-46-0	Conrad	1399	18.0	18.1	46.0	46.1		
18-46-0	Billings	431	18.0	18.4	46.0	46.0		
25-25-0	Choteau	1395	25.0	24.9	25.0	24.5		
34-0-0	Miles City	421	34.0	34.2				
34-0-0	Billings	434	34.0	34.2				

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STAUFFER CHEMICAL COMPANY 636 California Street San Francisco, California 94119								
Stauffer								
0-45-0	Stanford	1394			45.0	44.7		
0-45-0	Chinook	1436			45.0	46.8		
11-48-0	Billings	258	11.0	10.5	48.0	48.5		
16-20-0	Chinook	1435	16.0	15.8	20.0	22.9		
USS AGRI-CHEMICALS 4th and Adams Streets Winona, Minnesota 55987								
USS								
27-14-0	Great Fls	1406	27.0	29.5	14.0	14.4		
USS AGRI-CHEMICALS Division of United States Steel Corporation 10 East South Temple, Rm. 1224 Salt Lake City, Utah 84111								
USS								
34-0-0	Townsend	1474	34.0	34.6				
WYCON CHEMICAL COMPANY P.O. Box 1087 Colorado Springs, Colorado 80901								
Wycon								
34-0-0	Dillon	1594	34.0	34.3				
KERLEY CHEMICAL CO., INC. P.O. Box 6183 Kennewick, Washington 99336								
Kerley								
12-0-0	Great Fls	2027	12.0	11.2				

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MONTANA DEPARTMENT OF AGRICULTURE

Feed and Fertilizer Division

SUMMARY OF FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA
Calendar Year 1970

	MATERIALS	Jan-June (tons)	July-Dec (tons)	Total (tons)
1.	Anhydrous Ammonia (82-0-0)	826	984	1,810
2.	Ammonium Nitrate	28,670	9,900	38,570
3.	Ammonium Sulfate (21-0-0)	1,813	1,776	3,589
4.	Urea	124	177	301
5.	Nitrogen solutions (Aqua Ammonia, Urea Solutions and Urea, Ammonium Nitrate Solutions)	2,604	1,787	4,391
6.	Superphosphate (0-45-0, 0-46-0)	10,076	7,233	17,309
7.	Phosphoric Acid	1,662	1,269	2,931
8.	Ground Phosphate Rock and Bone Meal	-	30	30
9.	Gypsum, Lime and Sulfur	172	1,474	1,646
10.	Potash	1,867	1,282	3,149
11.	Micro Nutrient Materials	12	15	27
	AMMONIATED PHOSPHATES AND MIXTURES			
12.	30-10-0	831	146	977
13.	18-46-0	18,228	21,583	39,811
14.	16-20-0	16,195	7,154	23,349
15.	11-48-0	6,686	9,305	15,991
16.	11-55-0, 18-56-0	892	2,291	3,183
17.	27-14-0	3,040	952	3,992
18.	27-12-0, 29-14-0, 28-14-0	7,245	1,967	9,212
19.	1-1-0 ratios such as 23-23-0	2,635	2,578	5,213
20.	1-1-1 ratios such as 16-16-16	440	36	476
21.	20-20-10, 14-14-7, 8-32-16	405	247	652
22.	15-40-5, 12-36-12, 10-30-10	250	225	475
23.	Sewage sludge and dried manures	195	192	387
24.	Miscellaneous dry mixtures	86	475	561
25.	Liquid Mixtures	1,058	*5,139	6,197
26.	Miscellaneous Lawn and Garden	558	189	747
	TOTAL, All Fertilizers and Materials	106,570	78,406	184,976
	TOTAL NITROGEN	22,243	13,500	35,743
	TOTAL P_2O_5	23,598	23,415	47,013
	TOTAL K_2O	1,541	1,084	2,625

* includes some reported late for the first six months report

FERTILIZER BY GRADES USED IN PREPARING CUSTOMER FORMULA BLENDS

(Included in first page)

	MATERIAL	Jan-June (tons)	July-Dec (tons)	Total (tons)
1.	Ammonium Nitrate	10,033	2,941	12,974
2.	Ammonium Sulfate (21-0-0)	618	348	966
3.	Nitrogen Solutions	120	-	120
4.	Superphosphates (0-45-0, 0-46-0)	1,250	686	1,936
5.	Potash	1,110	598	1,708
6.	Sulfur	16	24	40
7.	Micro-Nutrient Materials	64	22	86
	AMMONIUM PHOSPHATES AND DRY MIXTURES			
8.	30-10-0	19	9	28
9.	18-46-0	5,970	2,981	8,951
10.	16-20-0	1,154	546	1,700
11.	11-48-0, 11-55-0	199	868	1,067
12.	27-14-0, 28-14-0	-	-	-
13.	Liquid Mixtures	340	133	473
14.	Miscellaneous or not reported as to grade	191	1,580	1,771
	TOTAL FERTILIZER MATERIALS USED IN BLENDING	21,084	10,736	31,820

This Commercial Fertilizer Report is published biannually by the Montana Department of Agriculture in order to supply information to all persons concerned. If you would like your name added to the mailing list please write:

B.E. Ginther, Associate Chemist
Agricultural Experiment Station
McCall Hall
Montana State University
Bozeman, Montana 59715